

TA-F222ESR/F530ES

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
TA-F530ES

E Model
TA-F222ESR

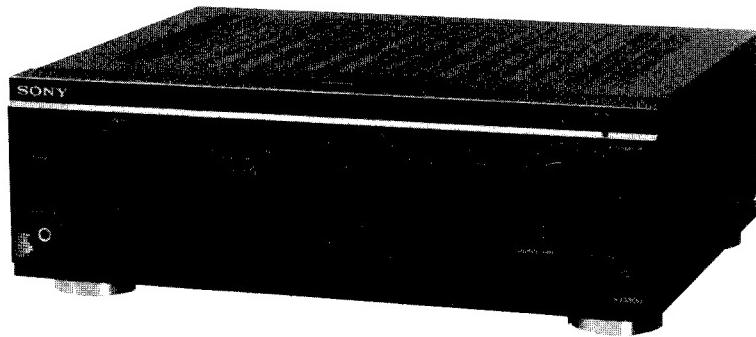


photo : TA-F530ES

SPECIFICATIONS

Amplifier section

Item	Condition		Data
Continuous RMS power output (both channels driven simultaneously)	4 ohms, 20 Hz-20 kHz THD 0.008%	Canadian, UK, E model	120 W + 120 W (THD 0.01%) (DIN: 160 W + 160 W)
	6 ohms, 20 Hz-20 kHz THD 0.006%	Canadian, UK, E model	100 W + 100 W (DIN: 120 W + 120 W)
		AEP, West Germany model	95 W + 95 W (DIN: 115 W + 115 W)
	8 ohms, 20 Hz-20 kHz THD 0.004%	Canadian, UK, E model	90 W + 90 W (DIN: 110 W + 110 W)
		AEP, West Germany model	80 W + 80 W (DIN: 100 W + 100 W)
Power band width (IHF)	8 ohms, THD 0.02%		10 Hz - 100 kHz at 45 W
Dynamic headroom ('78 IHF)	4 ohms		2 dB
	8 ohms		1.2 dB
Total harmonic distortion	8 ohms, at 10 watt output		0.003%
Intermodulation (IM) distortion 60 Hz: 7 kHz = 4:1	4 ohm, at rated output		0.008%
	6 ohms at rated output		0.006%
	8 ohms at rated output		0.004%
Damping factor	8 ohms, 1 kHz		50
Residual noise	network A		less than 90µV
Frequency response	PHONO MM		RIAA equalization curve ±0.2 dB
	TUNER, CD, TAPE 1, 2, 3, DIRECT IN		2 Hz - 200 kHz +0 dB -3 dB

—Continued on page 2—

INTEGRATED STEREO AMPLIFIER
SONY®



Item	Condition		Data
Input sensitivity	PHONO	MC	0.17 mV, 100 ohms.
		MM	2.5 mV, 50 kohms
	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		150 mV, 50 kohms
S/N (network)	PHONO	MC	68 dB 76 dB* (A)
		MM	80 dB 87 dB* (A)
	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		84 dB 105 dB* (A)
Output voltage impedance	REC OUT 1, 2, 3 ADAPTOR OUT		150 mV, 1 kohm
	HEADPHONES		25 milliwatts (at 8 ohms) Accepts low and high impedance headphones.
Tone controls	BASS, at 100 Hz		±6 dB (turnover freq. 400 Hz)
	TREBLE, at 10 kHz		±6 dB (freq. 4 kHz)

General

System Preamplifier section: Low-noise high gain NFB type equalizer amplifier, passive type direct tone control
Power amplifier section: Pure-complementary SEPP power amplifier

Power requirements

AEP, West Germany model : 220 V AC, 50 Hz
UK model: 240 V AC, 50 Hz
E model : 120 V, 220 V or 240 V AC
adjustable, 50/60 Hz
Canadian model : 120 V AC, 50/60Hz

Power consumption

Canadian model	510 VA
AEP, UK, West Germany model	220 W
UK model	600 W
E model	340 W

AC outlet

Canadian model	2 switched, 1 unswitched, 100 watts max. each
AEP, UK, West Germany model	—
E model	1 switched, 1 unswitched, 100 watts each

Dimensions

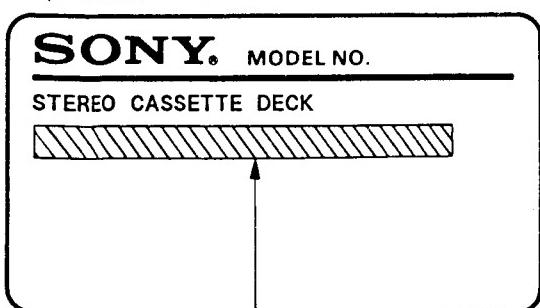
Approx. 430 x 150 x 370 mm (w/h/d)
(17 x 5 7/8 x 14 9/16 inches)

Weight

Approx. 13.5 kg (29 lbs 13 oz) net

TABLE OF CONTENTS**MODEL IDENTIFICATION**

— Specification Label —



Canadian model : AC 120V 60Hz

AEP, West Germany model : AC 220V~50/60Hz

UK model : AC 240V~50/60Hz

E model : AC 120/220/240V~50/60Hz

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SERVICING NOTES

SAFETY CHECK-OUT

On operating voltage

Before operating the unit, check that the operating voltage of your unit is identical with the voltage of your local power supply.

Where purchased	Operating voltage
UK Model	240 V AC
Canadian Model	120V AC
AEP, West Germany Model	220 V AC
E Model	120 V, 220 V or 240 V AC adjustable by AC voltage selector



VOLTAGE SELECTOR

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamper). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

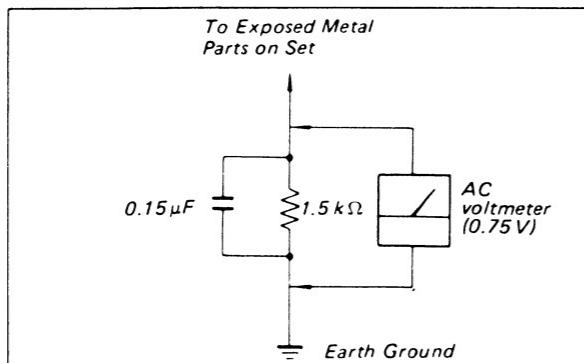
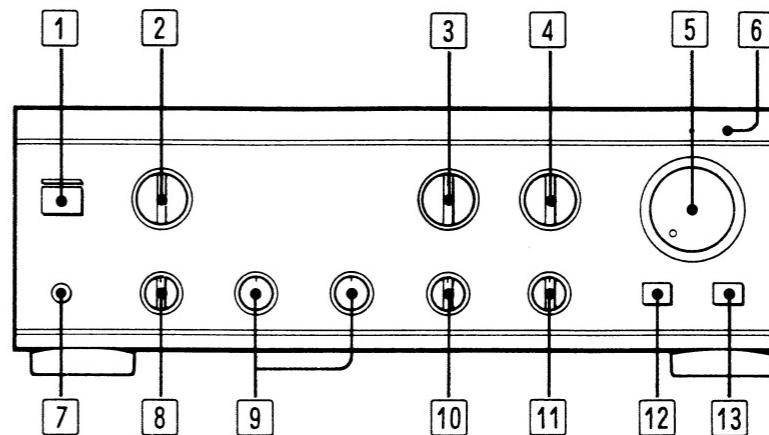


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1

GENERAL

PARTS IDENTIFICATION



1 POWER switch and power/standby indicator

Immediately after turning ON the power, the standby indicator lights in red as the built-in muting circuit activates.

When the amplifier stays in a stable operating condition, the indicator lights in green.

The indicator lights in red when the unit detects shorting of circuit of the speaker outputs or in case of short-circuit of the inputs of DC components.

In such a case, disconnect the power source and check the connected components and speaker systems.

2 SPEAKERS selector

Select speaker system A or B, or both.

3 ADAPTOR/DIRECT IN switch

Set to NORMAL to select program source by INPUT SELECTOR. To listen to a program source processed through adapter (graphic equalizer, for example) connected to ADAPTOR jacks, set the selector to ADAPTOR.

To listen to a program source connected to DIRECT IN jacks, set it to DIRECT IN.

Note that selecting ADAPTOR has no effect upon the signals output through the REC OUT jacks.

4 INPUT SELECTOR

Selects the desired program source.

5 ATTENUATOR knob

Regulates the sound level.

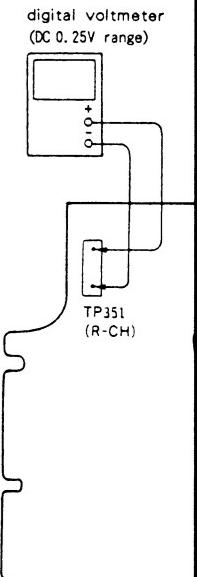
PRECAUTIONS

1. Adjust the idling time 10-15 minutes.
2. Always make sure the power am-

IDLING ADJUST

Procedure:
Set the ATTENUATOR and adjust RT301 (L) so that the voltmeter reads 700 mV.

ADJUSTMENT LOCATIONS



SECTION 2 ELECTRICAL ADJUSTMENTS

PRECAUTIONS

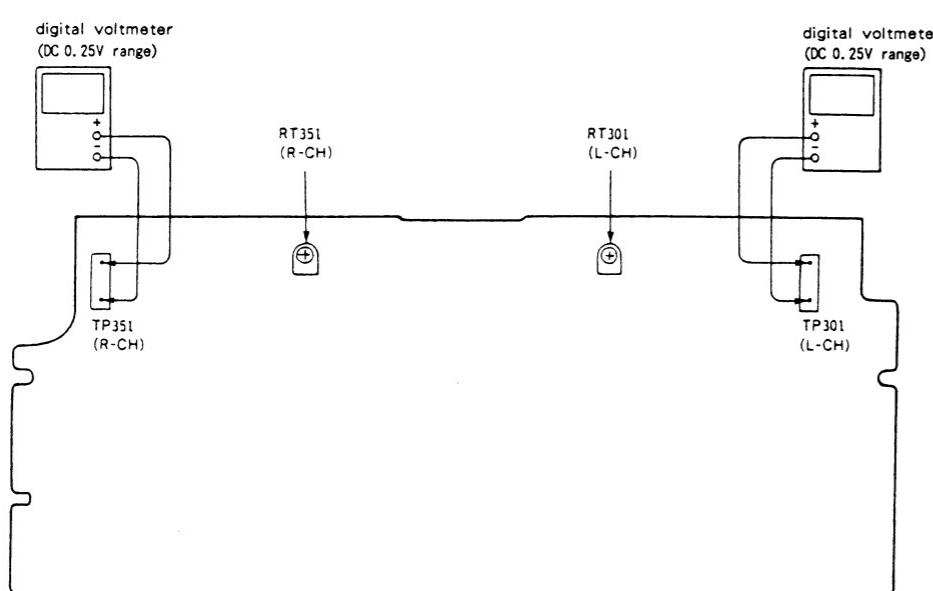
1. Adjust the idling after tuning the unit on for about 10-15 minutes, giving it time to warm up.
2. Always make sure to adjust the idling when repairing the power amp section or when replacing any parts.

[IDLING ADJUSTMENT]

Procedure :

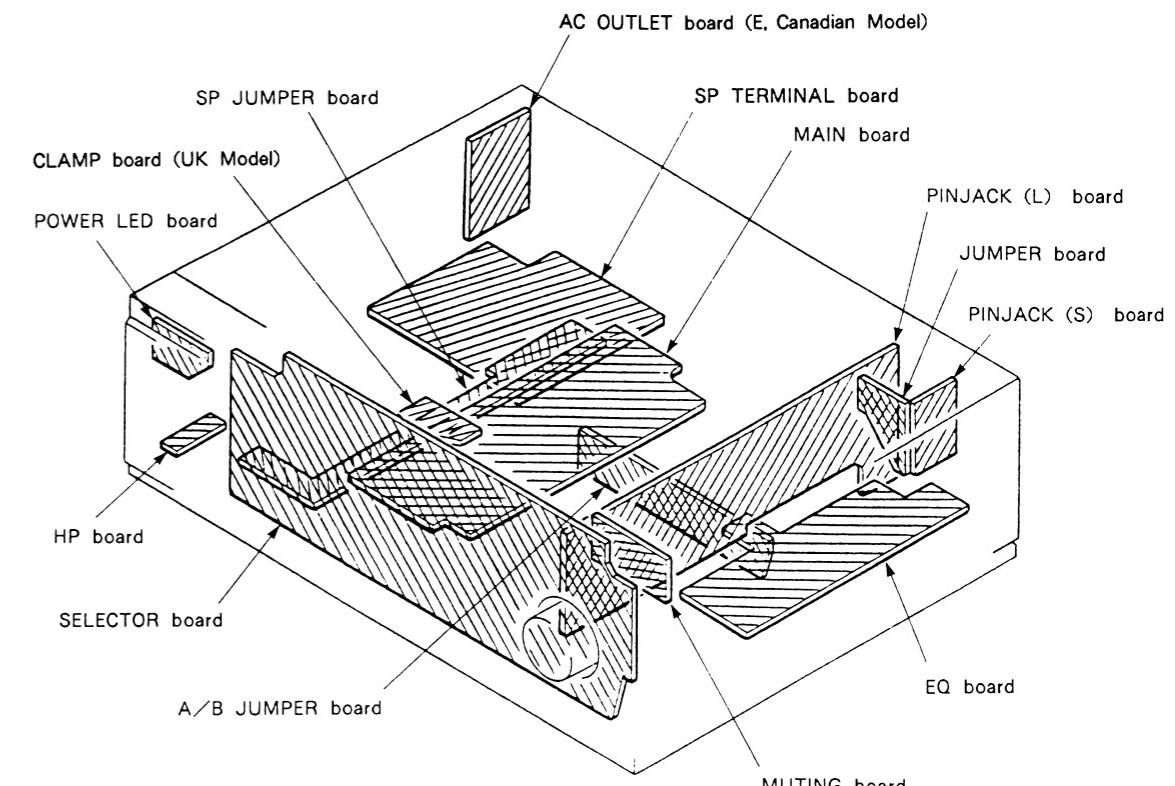
Set the ATTENUATOR control as low as possible and adjust RT301 (L-CH) and RT351 (R-CH) so that the voltmeter reads 7mV at TP301 (L-CH) and TP351 (R-CH).

Adjustment Location: power board



SECTION 3 DIAGRAMS

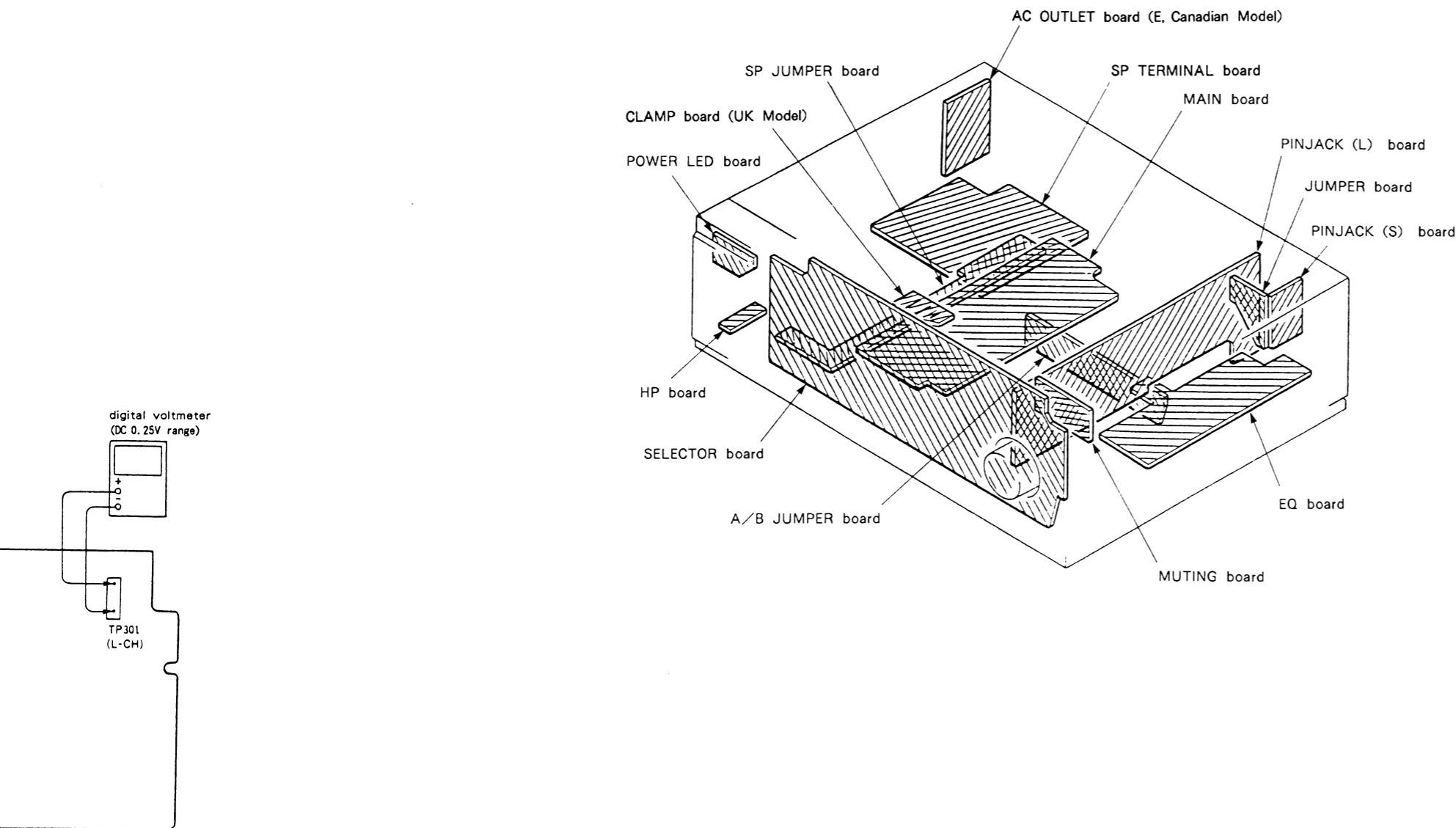
CIRCUIT BOARD LOCATION



SECTION 2
ADJUSTMENTS

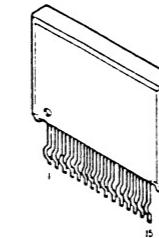
SECTION 3
DIAGRAMS

CIRCUIT BOARD LOCATION



● Semiconductor Lead Layouts

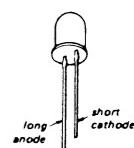
STK-3102-3



2SC3423



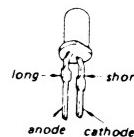
SEL2510C



2SD774-3



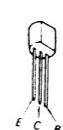
SEL2810A



US1060M
UZL-16L
10E2N
30DF2



2SA733-Q
2SA988-F
2SC945-P
2SC2545



HZS-7B2L



2SA985A
2SC2275-P



3-1. PRINTED WIRING BOARDS

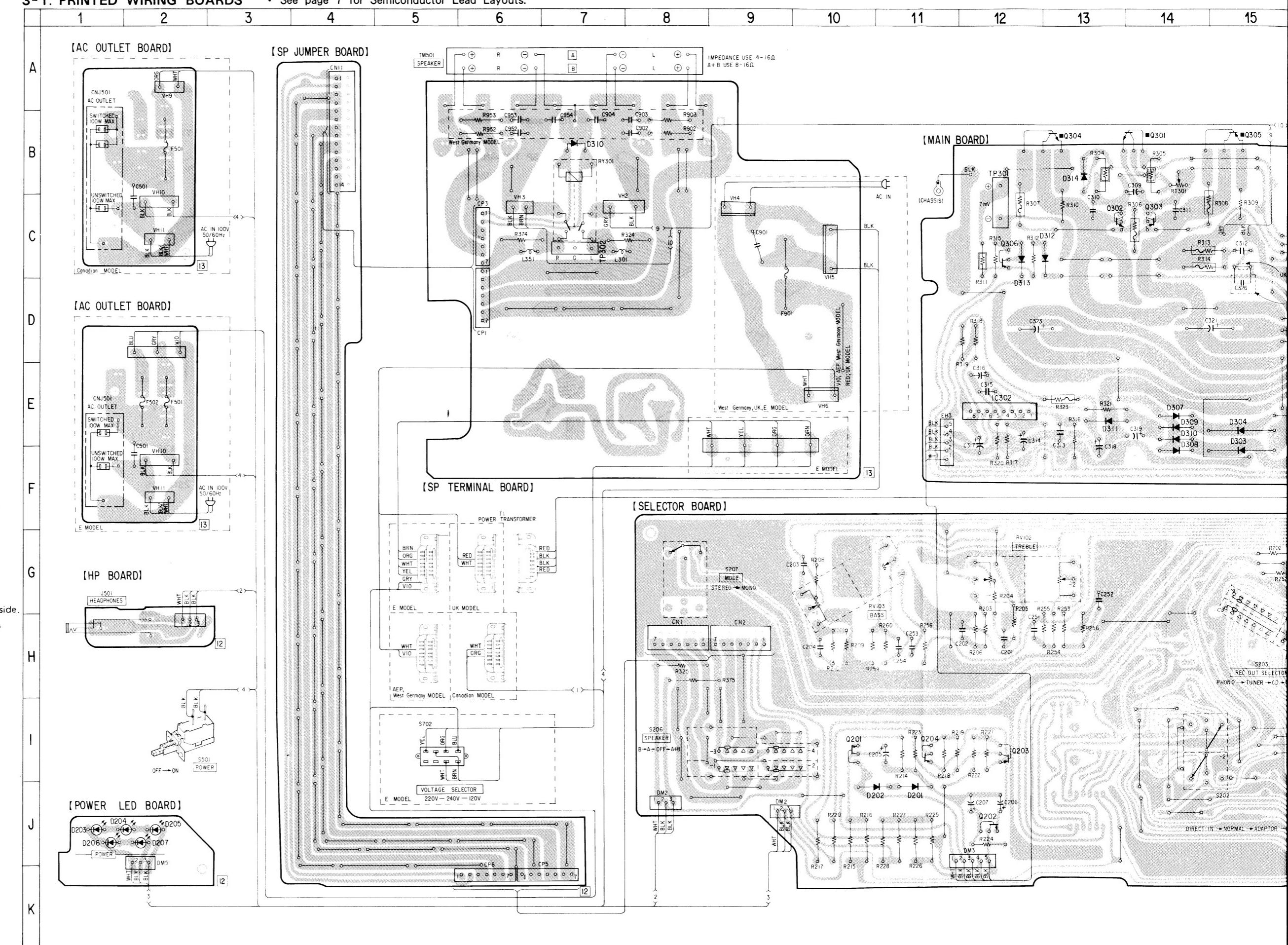
• See page 7 for Semiconductor Lead Layouts.

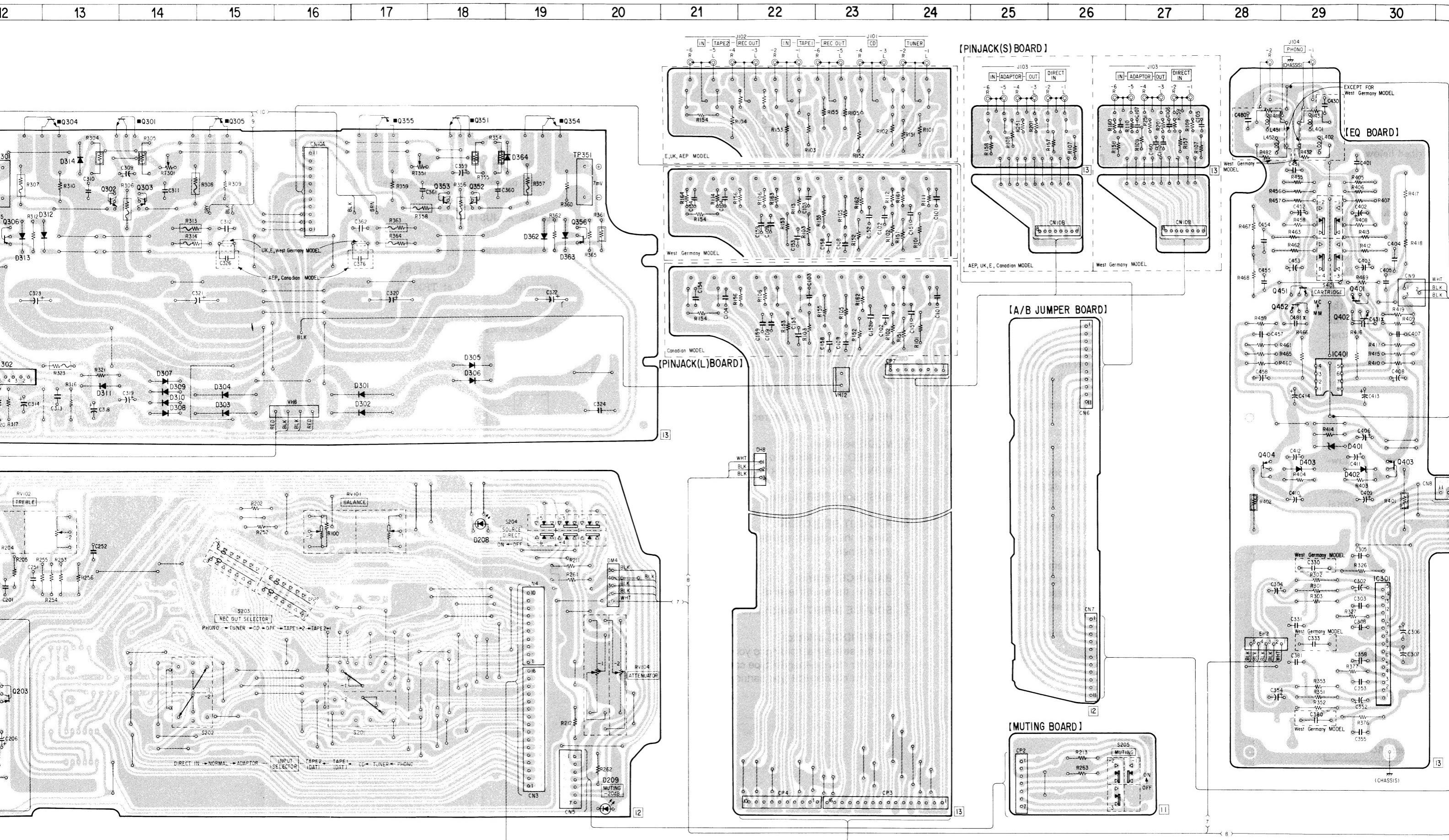
● Semiconductor Location

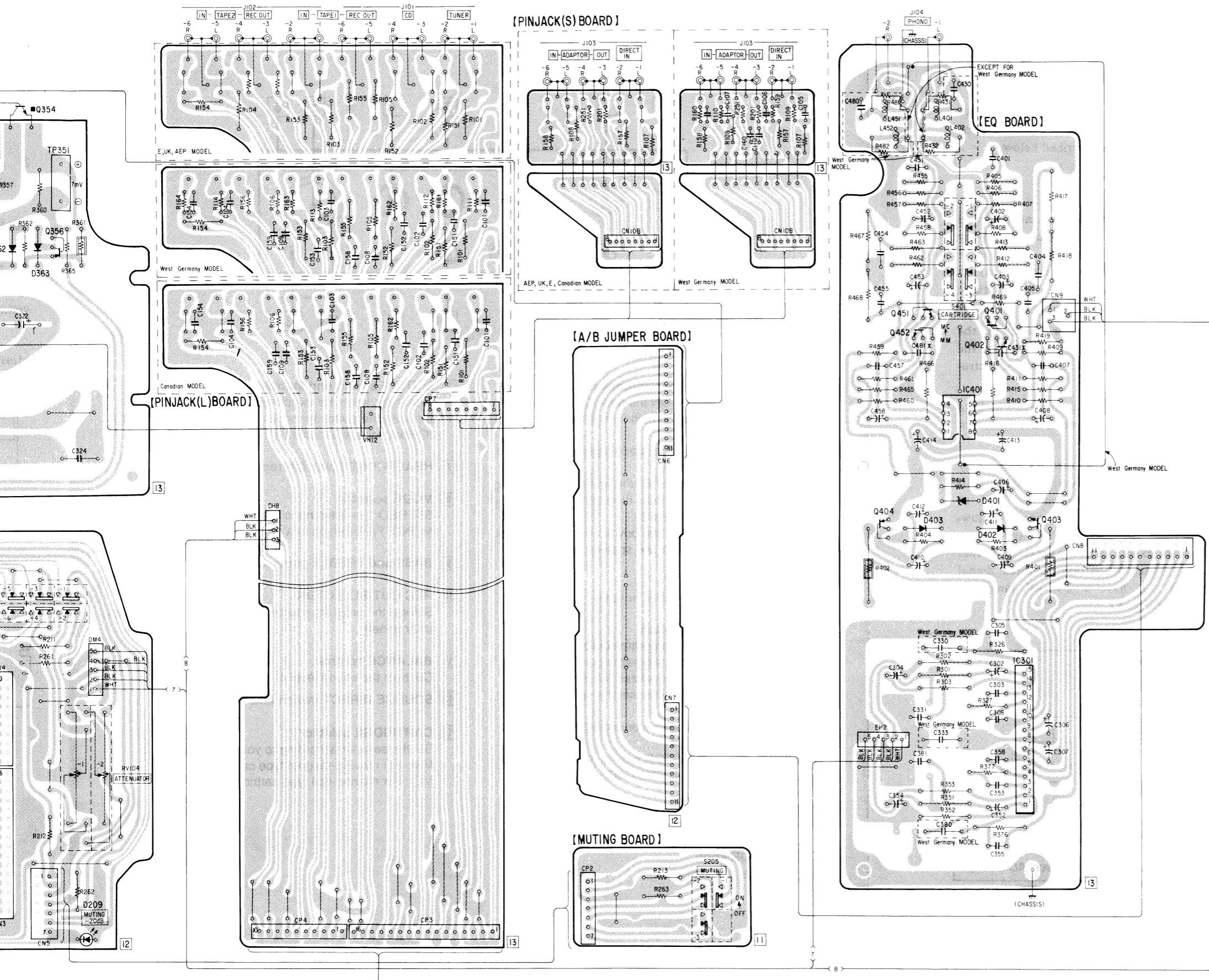
Ref. No.	Location	Ref. No.	Location
D201	J-11	IC301	I-30
D202	J-11	IC302	E-12
D203	J-1	IC401	E-30
D204	J-2		
D205	J-2	Q201	I-10
D206	J-1	Q202	J-12
D207	J-2	Q203	I-12
D208	G-19	Q204	I-11
D209	K-20	Q301	B-14
D301	E-17	Q302	C-14
D302	F-17	Q303	C-14
D303	F-15	Q304	B-13
D304	E-15	Q305	B-15
D305	E-18	Q306	C-12
D306	E-18	Q351	B-18
D307	E-14	Q352	C-18
D308	F-14	Q353	C-18
D309	E-14	Q354	B-19
D310	F-14	Q355	B-17
D311	E-14	Q356	C-20
D312	C-13	Q401	D-30
D313	C-12	Q402	D-30
D314	B-13	Q403	F-31
D319	B-7	Q404	F-21
D362	C-19	Q451	D-29
D363	C-20	Q452	D-29
D364	B-19		
D401	F-30		
D402	F-30		
D403	F-29		

Note on Printed Wiring Boards :

- : parts extracted from the component side.
- : parts mounted on the conductor side.

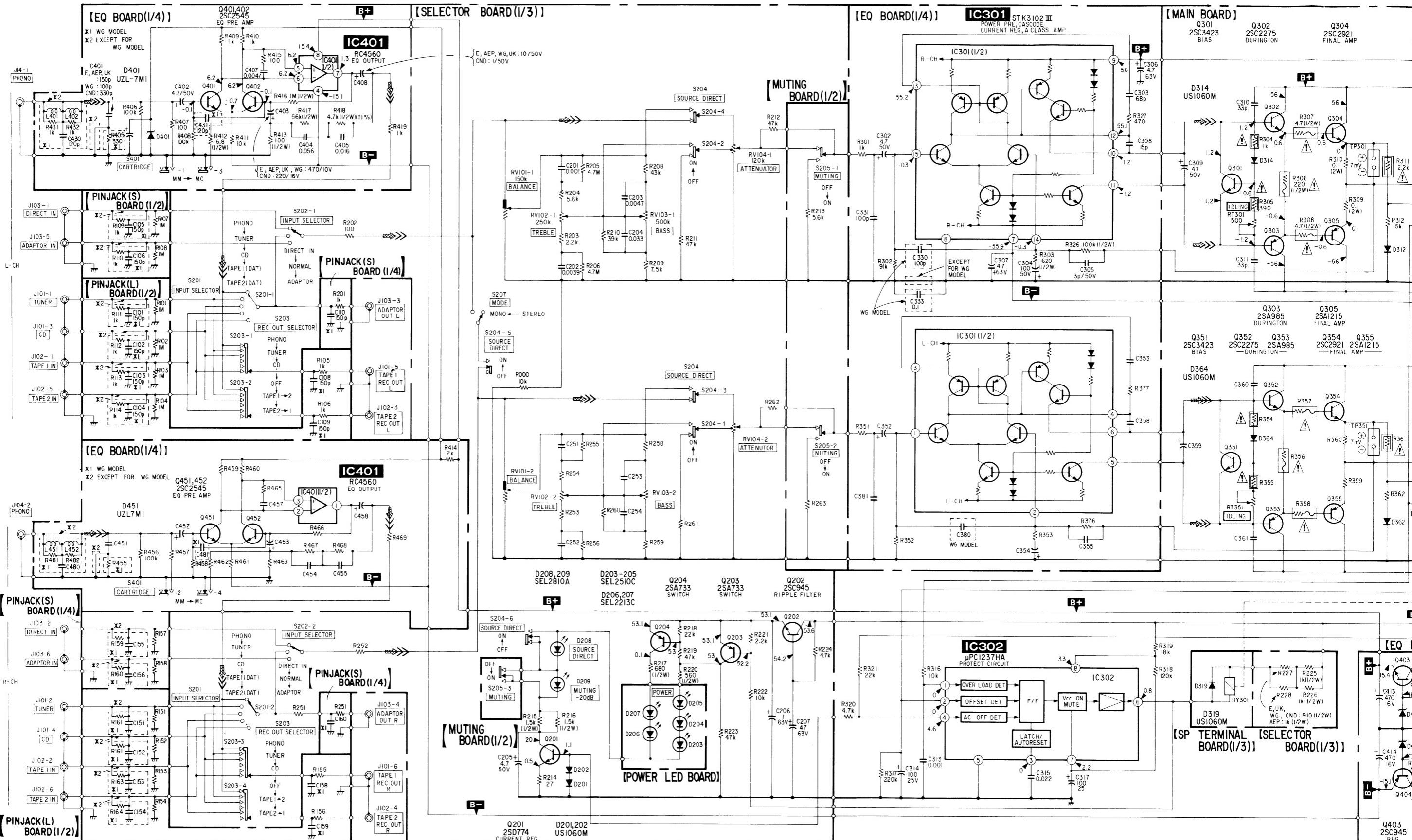


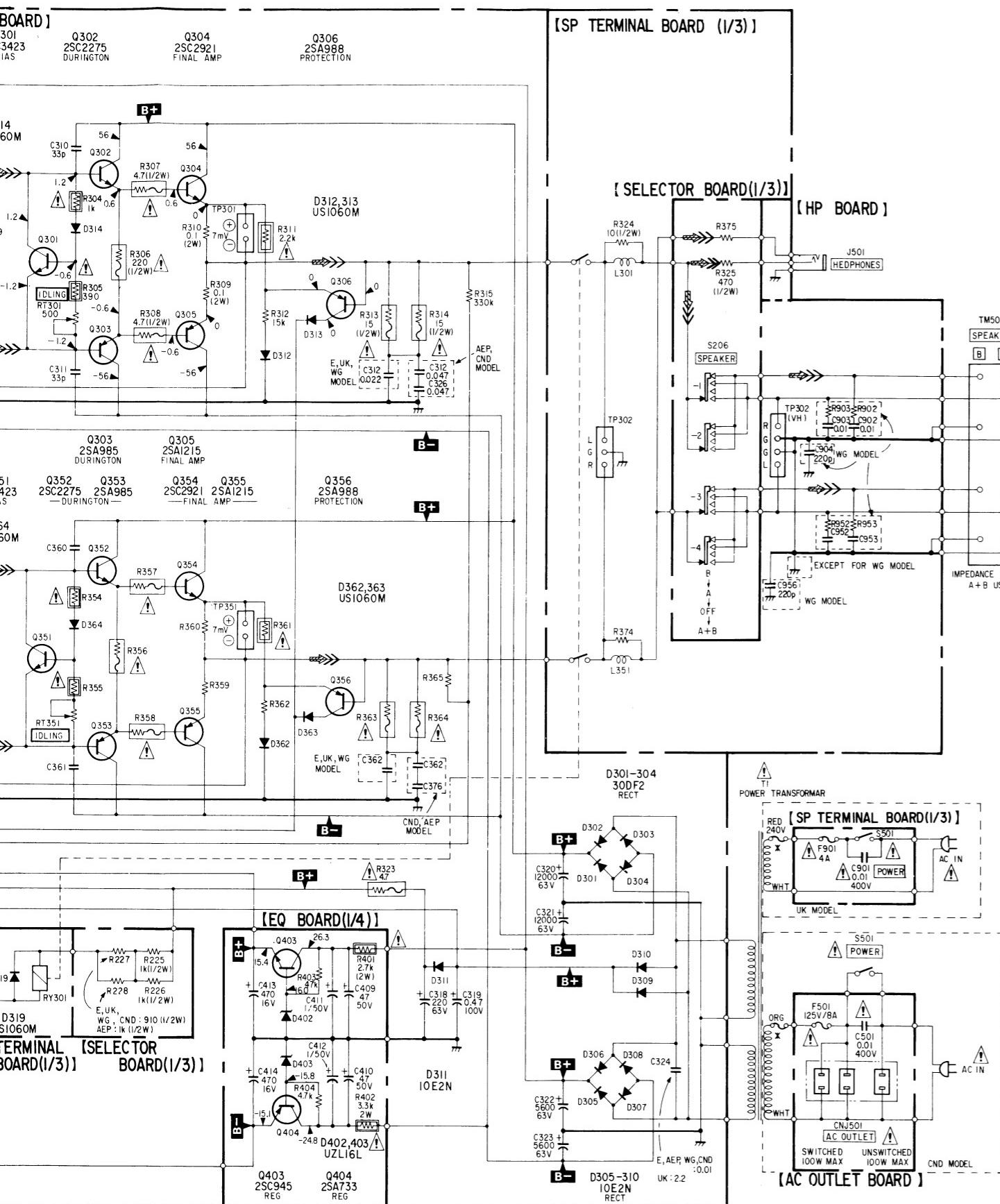




3-2. SCHEMATIC DIAGRAMS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



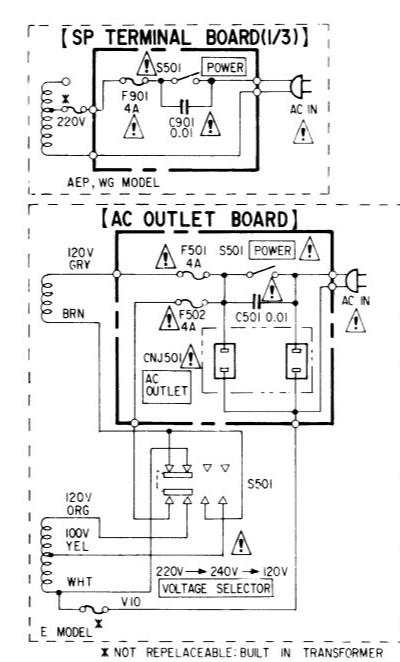
**Note on Schematic Diagrams :**

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/2\text{W}$ or less unless otherwise specified.
- Components for right channel have same values as for left channel.
- : nonflammable resistor.
- : fusible resistor.

Note:
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: PHONO
- Voltages are taken with a VOM.
(Input impedance $10\text{M}\Omega$)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
: PHONO
- WG : West Germany
- CND : Canadian



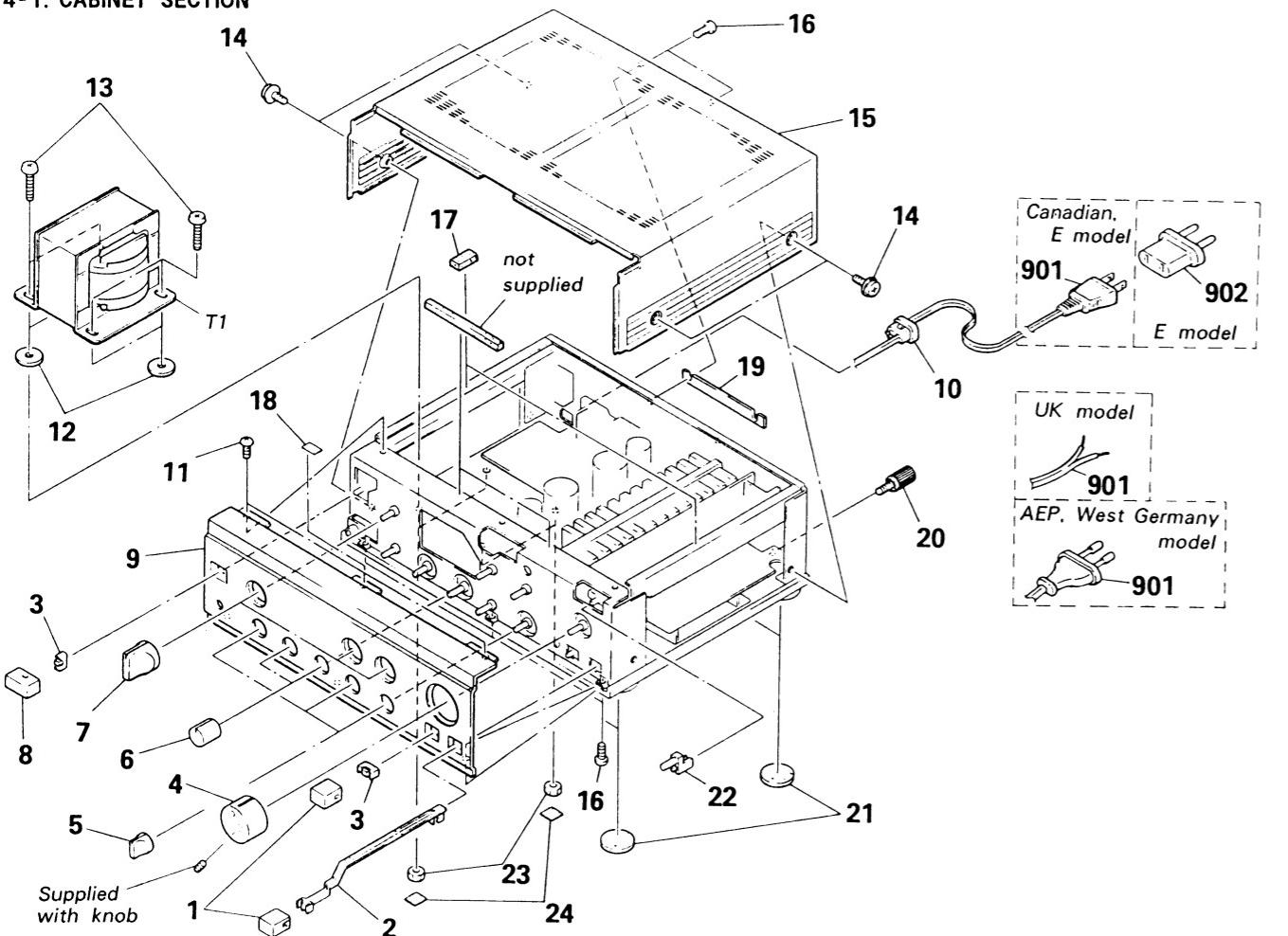
SECTION 4 EXPLODED VIEWS

- NOTE:**
- The mechanical parts with no reference number in the exploded views are not supplied.
 - The construction parts of an assembled part are indicated with a collation number in the remark column.
 - Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ ↑
Cabinet's Color Parts' Color
WG : West Germany model

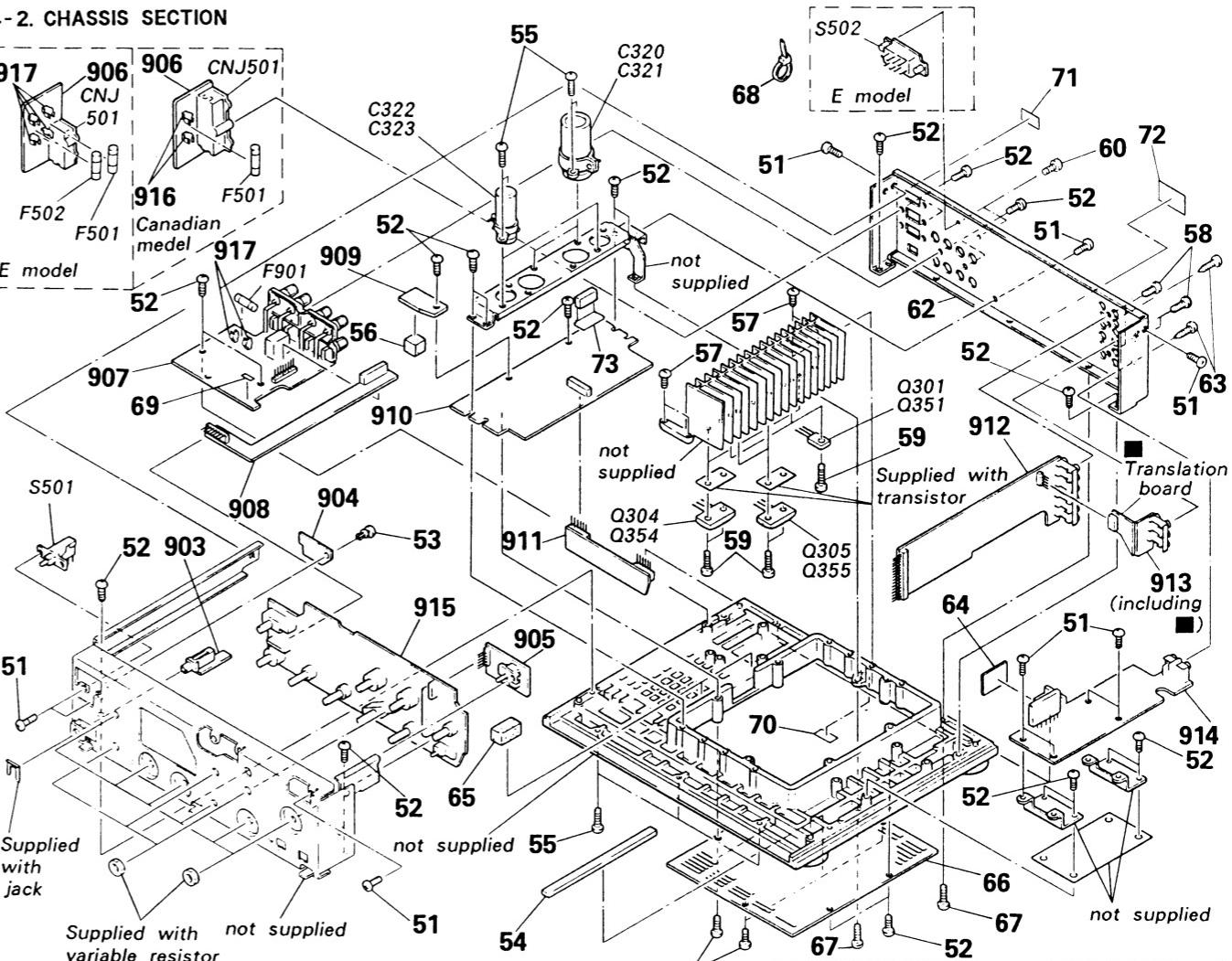
The components identified by mark **A** or dotted line with mark **A** are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CABINET SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-908-875-01	KNOB, SQUARE		16	7-685-873-09	SCREW +BVTT 3X10 (S)	
2	4-929-227-01	JOINT		17	*2-527-517-11	(UK)...CUSHION, CASE RETAINER	
3	4-864-307-00	RING		18	*3-840-067-21	(UK)...SPACER (C)	
4	4-929-224-01	KNOB (NA-48)		19	*4-929-232-01	SPACER	
5	4-916-745-01	KNOB (DIA.21)		20	3-706-165-00	SCREW	
6	4-916-746-11	KNOB (DIA. 21), ROUND		21	*4-923-850-01	FOOT (DIA. 46)	
7	4-916-729-01	KNOB (DIA.29)		22	4-923-879-01	BUTTON (DIA.4)	
8	4-908-856-01	KNOB, SQUARE		23	7-684-024-04	N 4, TYPE 2	
9	A-4317-962-A	(Canadian)...PANEL ASSY, FRONT		24	*4-929-266-01	CUSHION	
	A-4317-965-A	(AEP,WG,UK)...PANEL ASSY, FRONT		901	A1-551-478-00	(Canadian)...CORD, POWER	
	A-4323-063-A	(E)...PANEL ASSY, FRONT			A1-574-381-11	(E)...CORD, POWER	
10	3-703-244-00	(Canadian,AEP,WG,UK)...BUSHING, CORD			A1-574-804-11	(UK)...CORD, POWER	
	3-703-571-11	(E)...BUSHING (S) (4516), CORD			A1-574-805-11	(AEP,WG)...CORD, POWER	
11	7-682-547-09	SCREW +BVTT 3X6 (S)		902	A1-526-565-00	(E)...AC PLUG ADAPTOR	
12	4-885-984-21	(UK)...WASHER		T1	A1-449-685-11	(Canadian)...TRANSFORMER, POWER	
13	7-682-566-09	SCREW +B 4X20		T1	A1-449-687-11	(WG)...TRANSFORMER, POWER	
14	4-847-802-00	SCREW		T1	A1-449-688-11	(AEP)...TRANSFORMER, POWER	
15	4-916-737-01	(Canadian,WG,UK,E)...CASE		T1	A1-449-689-11	(UK)...TRANSFORMER, POWER	
	4-916-737-21	(AEP)...CASE		T1	A1-449-690-11	(E)...TRANSFORMER, POWER	

4-2. CHASSIS SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-547-09	SCREW +BVTT 3X6 (S)		908	*1-629-757-11	PC BOARD, SP JUMPER	
52	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		909	*1-630-146-11	(Canadian)...PC BOARD, CLAMP	
53	4-812-134-00	RIVET NYLON, 3.5		910	*A-4333-335-A	(WG,E)...MOUNTED PCB, MAIN	
54	*4-916-782-21	(UK)...DAMPER			*A-4333-343-A	(Canadian,AEP)...MOUNTED PCB, MAIN	
55	7-685-873-09	SCREW +BVTT 3X10 (S)			*A-4333-725-A	(UK)...MOUNTED PCB, MAIN	
56	*4-921-410-91	(UK)...CUSHION		911	*1-629-750-11	PC BOARD, A/B JUMPER	
57	7-685-650-79	SCREW +BVTP 3X16 TYPE2 SLIT		912	*1-629-758-11	PC BOARD, PINJACK (L)	
59	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3		913	*1-629-756-11	PC BOARD, PIN JACK (S)	
60	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S		914	*A-4333-336-A	(WG)...MOUNTED PCB, EQ	
62	*4-929-233-03	(Canadian)...PANEL, BACK			*A-4333-341-A	(AEP,E)...MOUNTED PCB, EQ	
	*4-929-233-11	(WG,UK).....PANEL, BACK			*A-4333-726-A	(UK)...MOUNTED PCB, EQ	
	*4-929-233-21	(AEP).....PANEL, BACK			*A-4358-218-A	(Canadian)...MOUNTED PCB, EQ	
	*4-929-280-01	(E).....PANEL, BACK		915	*A-4410-898-A	(Canadian,WG,UK,E) ...MOUNTED PCB, SELECTOR	
63	7-621-849-00	SCREW, TAPPING		916	1-533-190-11	(Canadian)...CLIP, FUSE	
64	*4-916-782-61	(Canadian,UK)...DAMPER		917	1-533-183-11	(AEP,WG,UK,E)...HOLDER, FUSE	
65	*4-921-410-81	(UK)...CUSHION		C320	1-125-568-11	CAP, ELECT 12000MF	
66	*4-916-732-01	BOARD, BOTTOM		C321	1-125-568-11	CAP, ELECT 12000MF	
67	7-685-876-09	SCREW +BVTT 3X16 (S)		C322	1-125-569-11	CAP, ELECT 5600MF	
68	3-655-653-21	BAND (TAITON), BINDING		C323	1-125-569-11	CAP, ELECT 5600MF	
69	*3-701-948-20	(E)...LABEL (T4A), FUSE		CNJ501	A1-540-041-21	(E).....OUTLET, AC (AC OUTLET)	
70	*3-703-079-21	(Canadian)...LABEL, CAUTION (BACK)		CNJ501	A1-540-062-31	(Canadian)...OUTLET, AC (AC OUTLET)	
71	*3-703-270-00	(Canadian)...LABEL, AC 120V 60Hz		F501	A1-532-350-00	(E)....FUSE, TIME-LAG 4A	
72	*4-929-270-01	(Canadian)...LABEL, MODEL NUMBER		F501	A1-532-510-00	(Canadian)...FUSE, GLASE TUBE 8A	
	*4-929-272-01	(WG).....LABEL, MODEL NUMBER		F502	A1-532-350-00	(E)....FUSE, TIME-LAG 4A	
	*4-929-273-01	(UK).....LABEL, MODEL NUMBER		F901	A1-532-350-00	(AEP,WG,UK)...FUSE, TIME-LAG 4A	
	*4-929-274-01	(E).....LABEL, MODEL NUMBER		Q301	8-729-203-45	TRANSISTOR 2SC3423	
	*4-931-906-01	(AEP).....LABEL, MODEL NUMBER		Q304	8-729-320-03	TRANSISTOR 2SC291M-0	
73	*4-921-941-31	(UK)...CUSHION (FL)		Q305	8-729-320-01	TRANSISTOR 2SA1215M-0	
903	*1-629-749-11	PC BOARD, HP		Q351	8-729-203-45	TRANSISTOR 2SC3423	
904	*1-629-751-11	PC BOARD, POWER LED		Q354	8-729-320-03	TRANSISTOR 2SC291M-0	
905	*1-629-747-11	PC BOARD, MUTING		Q355	8-729-320-01	TRANSISTOR 2SA1215M-0	
906	*1-629-755-11	PC BOARD, AC OUTLET		S501	A1-554-920-31	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	
907	*1-629-753-11	PC BOARD, SP TERMINAL		S502	A1-570-307-11	(E)....SWITCH, VOLTAGE SELECTOR	

- NOTE:**
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
 - Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ ↑
Cabinet's Color Parts' Color
WG : West Germany model

- NOTE:**
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - If there are such as a circuit part resistors in

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: $\mu\mu$ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

- WG : West Germany model

The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	▲1-551-478-00	(Canadian)...CORD, POWER
	▲1-574-381-11	(E).....CORD, POWER
	▲1-574-804-11	(UK).....CORD, POWER
	▲1-574-805-11	(AEP,WG).....CORD, POWER
902	▲1-526-565-00	(E)....AC PLUG ADAPTOR
903	*1-629-749-11	PC BOARD, HP
904	*1-629-751-11	PC BOARD, POWER LED
905	*1-629-747-11	PC BOARD, MUTING
906	*1-629-755-11	PC BOARD, AC OUTLET
907	*1-629-753-11	PC BOARD, SP TERMINAL
908	*1-629-757-11	PC BOARD, SP JUMPER
909	*1-630-146-11	(Canadian)...PC BOARD, CLAMP
910	*A-4333-335-A	(WG,E).....MOUNTED PCB, MAIN
	*A-4333-343-A	(Canadian,AEP)....MOUNTED PCB, MAIN
	*A-4333-725-A	(UK).....MOUNTED PCB, MAIN
911	*1-629-750-11	PC BOARD, A/B JUMPER
912	*1-629-758-11	PC BOARD, PINJACK (L)
913	*1-629-756-11	PC BOARD, PIN JACK (S)
914	*A-4333-336-A	(WG).....MOUNTED PCB, EQ
	*A-4333-341-A	(AEP,E)....MOUNTED PCB, EQ
	*A-4333-726-A	(UK).....MOUNTED PCB, EQ
	*A-4358-218-A	(Canadian)...MOUNTED PCB, EQ
915	*A-4410-898-A	(Canadian,WG,UK,E)MOUNTED PCB, SELECTOR
916	1-533-190-11	(Canadian)...CLIP, FUSE
917	1-533-183-11	(AEP,WG,UK,E)...HOLDER, FUSE
C101	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C102	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C103	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C104	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C105	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C106	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C108	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C109	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C151	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C152	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C153	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C154	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C155	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C156	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C158	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C159	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
C201	1-130-471-00	MYLAR 0.001MF 5% 50V
C202	1-130-478-00	MYLAR 0.0039MF 5% 50V

Ref.No.	Part No.	Description
C203	1-130-479-00	MYLAR 0.0047MF 5% 50V
C204	1-136-159-00	FILM 0.033MF 5% 50V
C205	1-123-369-00	ELECT 4.7MF 20% 50V
C206	1-123-380-00	ELECT 1MF 20% 63V
C207	1-124-918-11	ELECT 47MF 20% 63V
C251	1-130-471-00	MYLAR 0.001MF 5% 50V
C252	1-130-478-00	MYLAR 0.0039MF 5% 50V
C253	1-130-479-00	MYLAR 0.0047MF 5% 50V
C254	1-136-159-00	FILM 0.033MF 5% 50V
C302	1-123-369-00	ELECT 4.7MF 20% 50V
C303	1-101-888-00	(E,AEP,WG)...CERAMIC 68PF 5% 50V
C303	1-104-276-00	(Canadian,UK)....POLYSTYRENE 68PF 10% 50V
C304	1-123-360-00	(E,AEP,WG)....ELECT 100MF 20% 50V
C304	1-126-052-11	(Canadian,UK)...ELECT 100MF 20% 50V
C305	1-102-936-00	(E,AEP,WG)...CERAMIC 3PF 0.5PF 50V
C305	1-107-276-11	(Canadian,UK)...MICA 3PF 0.5PF 500V
C358	1-102-951-00	(E,AEP,WG)...CERAMIC 15PF 5% 50V
C358	1-104-263-00	(Canadian,UK)....POLYSTYRENE 15PF 10% 125V
C359	1-123-359-00	(E,AEP,WG,Canadian)....ELECT 47MF 20% 50V
C359	1-124-910-11	(UK).....ELECT 47MF 20% 50V
C360	1-102-963-00	(E,AEP,WG,Canadian)....CERAMIC 33PF 5% 50V
C360	1-107-159-00	(UK).....MICA 33MF 5% 500V
C361	1-102-963-00	(E,AEP,WG,Canadian)....CERAMIC 33PF 5% 50V
C361	1-107-159-00	(UK).....MICA 33MF 5% 500V
C362	1-130-487-00	(E,WG,UK)...MYLAR 0.022MF 5% 50V
C362	1-136-161-00	(AEP,Canadian)....FILM 0.047MF 5% 50V
C306	1-123-369-00	(E,AEP,WG)...ELECT 4.7MF 20% 63V
C307	1-123-369-00	(E,AEP,WG)...ELECT 4.7MF 20% 63V
C308	1-102-951-00	(E,AEP,WG)...CERAMIC 15PF 5% 50V
C308	1-104-263-00	(Canadian,UK)....POLYSTYRENE 15PF 10% 125V
C309	1-123-359-00	(E,AEP,WG,Canadian)....ELECT 47MF 20% 50V
C309	1-124-910-11	(UK).....ELECT 47MF 20% 50V
C310	1-102-963-00	(E,AEP,WG,Canadian)....CERAMIC 33PF 5% 50V
C310	1-107-159-00	(UK).....MICA 33PF 5% 500V
C401	1-101-361-00	(E,AEP)....CERAMIC 150PF 5% 50V
C401	1-102-112-00	(Canadian)...CERAMIC 330PF 10% 50V
C401	1-102-973-00	(WG).....CERAMIC 100PF 5% 50V
C401	1-104-282-11	(UK)....POLYSTYRENE 150PF 5% 50V
C402	1-123-369-00	ELECT 4.7MF 20% 50V
C311	1-102-963-00	(E,AEP,WG,Canadian)....CERAMIC 33PF 5% 50V
C311	1-107-159-00	(UK).....MICA 33PF 5% 500V
C312	1-130-487-00	(E,WG,UK)....MYLAR 0.022MF 5% 50V
C312	1-136-161-00	(AEP,Canadian)...FILM 0.047MF 5% 50V
C313	1-130-471-00	MYLAR 0.001MF 5% 50V
C314	1-123-333-00	ELECT 100MF 20% 25V
C315	1-130-487-00	MYLAR 0.022MF 5% 50V
C317	1-123-333-00	ELECT 100MF 20% 25V
C318	1-123-604-00	ELECT 220MF 20% 63V
C319	1-123-379-00	ELECT 0.47MF 20% 100V
C320	1-125-568-11	CAP, ELECT 12000MF
C321	1-125-568-11	CAP, ELECT 12000MF
C322	1-125-569-11	CAP, ELECT 5600MF
C323	1-125-569-11	CAP, ELECT 5600MF

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C324	1-136-601-11	(E,AEP,WG,Canadian)....FILM 0.01MF 10% 630V	C410	1-123-359-00	(E,AEP,WG).....ELECT 47MF 20% 50V
C324	1-136-880-11	(UK).....FILM 2.2MF 10% 160V	C410	1-124-910-11	(UK,Canadian)...ELECT 47MF 20% 50V
C326	1-136-161-00	(AEP,Canadian)...FILM 0.047MF 5% 50V	C411	1-123-380-00	ELECT 1MF 20% 50V
C330	1-162-282-31	(WG).....CERAMIC 100PF 5% 50V	C412	1-123-380-00	ELECT 1MF 20% 50V
C331	1-102-973-00	(E,AEP,WG)...CERAMIC 100PF 5% 50V	C413	1-126-103-11	ELECT 470MF 20% 16V
C331	1-136-808-11	(UK,Canadian)...FILM 100MF 5% 100V	C414	1-126-103-11	ELECT 470MF 20% 16V
C333	1-161-370-00	(WG)...CERAMIC 0.01MF 30% 25V	C430	1-102-816-00	(WG)...CERAMIC 120PF 5% 50V
C352	1-123-369-00	ELECT 4.7MF 20% 50V	C431	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
C353	1-101-888-00	(E,AEP,WG)...CERAMIC 68PF 5% 50V	C451	1-101-361-00	(E,AEP).....CERAMIC 150PF 5% 50V
C353	1-104-276-00	(Canadian,UK)....POLYSTYRENE 68PF 10% 50V	C451	1-102-112-00	(Canadian)...CERAMIC 330PF 10% 50V
C354	1-123-360-00	(E,AEP,WG)...ELECT 100MF 20% 50V	C451	1-102-973-00	(WG).....CERAMIC 100PF 5% 50V
C354	1-126-052-11	(Canadian,UK)....ELECT 100PF 20% 50V	C451	1-104-282-11	(UK).....POLYSTYRENE 150PF 5% 50V
C355	1-102-936-00	(E,AEP,WG)...CERAMIC 3PF 0.5PF 50V	C452	1-123-369-00	ELECT 4.7MF 20% 50V
C355	1-107-276-11	(Canadian,UK)...MA			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
CP5	1-568-120-11	PIN, CONNECTOR (PC BOARD) 7P	Q204	8-729-713-36	TRANSISTOR 2SA733Q
CP6	1-568-120-11	PIN, CONNECTOR (PC BOARD) 7P	Q301	8-729-203-45	TRANSISTOR 2SC3423
CP7	*1-568-204-11	PIN, CONNECTOR (PC BOARD) 16P	Q302	8-729-127-53	TRANSISTOR 2SC2275-P
D201	8-719-000-26	DIODE US1060M	Q303	8-729-190-53	TRANSISTOR 2SA985A
D202	8-719-000-26	DIODE US1060M	Q304	8-729-320-03	TRANSISTOR 2SC2921M-0
D203	8-719-303-00	DIODE SEL2510C	Q305	8-729-320-01	TRANSISTOR 2SA1215M-0
D204	8-719-303-00	DIODE SEL2510C	Q306	8-729-108-04	TRANSISTOR 2SA988F
D205	8-719-303-00	DIODE SEL2510C	Q351	8-729-203-45	TRANSISTOR 2SC3423
D206	8-719-300-82	DIODE SEL2213C	Q352	8-729-127-53	TRANSISTOR 2SC2275-P
D207	8-719-300-82	DIODE SEL2213C	Q353	8-729-190-53	TRANSISTOR 2SA985A-P
D208	8-719-301-49	DIODE SEL2810A	Q354	8-729-320-03	TRANSISTOR 2SC2921M-0
D209	8-719-301-49	DIODE SEL2810A	Q355	8-729-320-01	TRANSISTOR 2SA1215M-0
D301	8-719-230-02	DIODE 30DF2	Q356	8-729-108-04	TRANSISTOR 2SA988F
D302	8-719-230-02	DIODE 30DF2	Q401	8-729-354-52	TRANSISTOR 2SC2545
D303	8-719-230-02	DIODE 30DF2	Q402	8-729-354-52	TRANSISTOR 2SC2545
D304	8-719-230-02	DIODE 30DF2	Q403	8-729-194-57	TRANSISTOR 2SC945P
D305	8-719-200-77	DIODE 10E2N	Q404	8-729-173-36	TRANSISTOR 2SA733Q
D306	8-719-200-77	DIODE 10E2N	Q451	8-729-354-52	TRANSISTOR 2SC2545
D307	8-719-200-77	DIODE 10E2N	Q452	8-729-354-52	TRANSISTOR 2SC2545
D308	8-719-200-77	DIODE 10E2N	R000	1-247-725-11	CARBON 10K 5% 1/4W
D309	8-719-200-77	DIODE 10E2N	R101	1-246-545-00	CARBON 1M 5% 1/4W
D310	8-719-200-77	DIODE 10E2N	R102	1-246-545-00	CARBON 1M 5% 1/4W
D311	8-719-200-77	DIODE 10E2N	R103	1-246-545-00	CARBON 1M 5% 1/4W
D312	8-719-000-26	DIODE US1060M	R104	1-246-545-00	CARBON 1M 5% 1/4W
D313	8-719-000-26	DIODE US1060M	R105	1-247-713-11	CARBON 1K 5% 1/4W
D314	8-719-000-26	DIODE US1060M	R106	1-249-417-11	CARBON 1K 5% 1/4W
D319	8-719-000-26	DIODE US1060M	R107	1-246-545-00	CARBON 1M 5% 1/4W
D362	8-719-000-26	DIODE US1060M	R108	1-246-545-00	CARBON 1M 5% 1/4W
D363	8-719-000-26	DIODE US1060M	R109	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
D364	8-719-000-26	DIODE US1060M	R110	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
D401	8-719-933-47	DIODE HZS7B2L	R111	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
D402	8-719-001-97	DIODE UZL-16L	R112	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
D403	8-719-001-97	DIODE UZL-16L	R113	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
EH2	*1-564-508-11	PLUG, CONNECTOR 5P	R114	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
EH3	*1-564-508-11	PLUG, CONNECTOR 5P	R151	1-246-545-00	CARBON 1M 5% 1/4W
F501	△ 1-532-350-00	(E)....FUSE, TIME-LAG 4A	R152	1-246-545-00	CARBON 1M 5% 1/4W
F501	△ 1-532-510-00	(Canadian)....FUSE, GLASE TUBE 8A	R153	1-246-545-00	CARBON 1M 5% 1/4W
F502	△ 1-532-350-00	(E)....FUSE, TIME-LAG 4A	R154	1-246-545-00	CARBON 1M 5% 1/4W
F901	△ 1-532-350-00	(AEP,WG,UK)...FUSE, TIME-LAG 4A	R155	1-247-713-11	CARBON 1K 5% 1/4W
IC301	8-749-920-70	IC STK3102-3	R156	1-249-417-11	CARBON 1K 5% 1/4W
IC302	8-759-111-68	IC UPC1237HA	R157	1-246-545-00	CARBON 1M 5% 1/4W
IC401	8-759-981-96	IC RC4560D	R158	1-246-545-00	CARBON 1M 5% 1/4W
J101	1-565-320-51	JACK, PIN 6P (TUNER/CD/TAPE1,RECOUT)	R159	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
J102	1-565-320-41	JACK, PIN 6P (TAPE2/REC OUT)	R160	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
J103	1-565-320-51	JACK, PIN 6P (ADAPTOR IN,OUT/DIRECT IN)	R161	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
J104	1-568-250-11	JACK, PIN 2P (PHONO)	R162	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
L301	*1-420-872-00	(E,AEP,WG,UK)...COIL, AIR CORE	R163	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
L301	*1-420-872-31	(Canadian).....COIL, AIR CORE	R164	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
L351	*1-420-872-00	(E,AEP,WG,UK)...COIL, AIR CORE	R201	1-249-417-11	CARBON 1K 5% 1/4W
L351	*1-420-872-31	(Canadian).....COIL, AIR CORE	R202	1-247-700-11	CARBON 100 5% 1/4W
L401	1-413-101-00	(WG)...COIL INPUT	R203	1-247-717-11	CARBON 2.2K 5% 1/4W
L402	1-413-101-00	(WG)...COIL INPUT	R204	1-247-722-11	CARBON 5.6K 5% 1/4W
L451	1-413-101-00	(WG)...COIL INPUT	R205	1-249-753-15	CARBON 4.7M 5% 1/4W
L452	1-413-101-00	(WG)...COIL INPUT	R206	1-249-753-15	CARBON 4.7M 5% 1/4W
Q201	8-729-177-42	TRANSISTOR 2SD774-3	R208	1-247-170-00	CARBON 43K 5% 1/4W
Q202	8-729-194-57	TRANSISTOR 2SC945P			
Q203	8-729-713-36	TRANSISTOR 2SA733Q			

Note:	Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>				
R209	1-247-152-00	CARBON	7.5K	5%	1/4W	R326	1-249-721-11	CARBON	100K	5%	1/2W	
R210	1-249-464-11	CARBON	39K	5%	1/4W	R327	1-247-708-11	CARBON	470	5%	1/4W	
R211	1-249-465-11	CARBON	47K	5%	1/4W	R351	1-247-713-11	CARBON	1K	5%	1/4W	
R212	1-249-465-11	CARBON	47K	5%	1/4W	R352	1-249-599-11	CARBON	91K	5%	1/4W	
R213	1-247-722-11	CARBON	5.6K	5%	1/4W	R353	1-249-668-11	CARBON	620	5%	1/2W	
R214	1-247-693-11	CARBON	27	5%	1/4W	R354	1-247-713-11	CARBON	1K	5%	1/4W	
R215	1-247-754-11	CARBON	1.5K	5%	1/2W	R355	1-247-707-11	CARBON	390	5%	1/4W	
R216	1-247-754-11	CARBON	1.5K	5%	1/2W	R356	▲ 1-212-990-00	FUSIBLE	220	5%	1/2W F	
R217	1-247-750-11	CARBON	680	5%	1/2W	R357	▲ 1-212-950-00	FUSIBLE	4.7	5%	1/2W F	
R218	1-249-462-11	CARBON	22K	5%	1/4W	R358	▲ 1-212-950-00	FUSIBLE	4.7	5%	1/2W F	
R219	1-249-465-11	CARBON	47K	5%	1/4W	R359	1-217-611-00	METAL PLATE	0.1	10%	2W	
R220	1-247-749-11	CARBON	560	5%	1/2W	R360	1-217-611-00	METAL PLATE	0.1	10%	2W	
R221	1-247-717-11	CARBON	2.2K	5%	1/4W	R361	▲ 1-247-717-11	CARBON	2.2K	5%	1/4W F	
R222	1-247-725-11	CARBON	10K	5%	1/4W	R362	1-249-460-11	CARBON	15K	5%	1/4W	
R223	1-249-465-11	CARBON	47K	5%	1/4W	R363	▲ 1-212-962-00	FUSIBLE	15	5%	1/2W F	
R224	1-247-721-11	CARBON	4.7K	5%	1/4W	R364	▲ 1-212-962-00	FUSIBLE	15	5%	1/2W F	
R225	1-247-752-11	CARBON	1K	5%	1/2W	R365	1-247-891-00	CARBON	330K	5%	1/4W	
R226	1-247-752-11	CARBON	1K	5%	1/2W	R374	1-247-727-11	CARBON	10	5%	1/2W	
R227	1-247-752-11	(E,WG,Canadian,UK)				R375	1-247-747-11	CARBON	470	5%	1/2W	
	...CARBON	1K	5%	1/2W	R376	1-249-721-11	CARBON	100K	5%	1/2W		
R227	1-247-239-00	(AEP)...	CARBON	910	5%	1/2W	R377	1-247-708-11	CARBON	470	5%	1/4W
R228	1-247-752-11	(E,WG,Canadian,UK)				R401	▲ 1-216-459-00	METAL OXIDE	2.7K	5%	2W F	
	...CARBON	1K	5%	1/2W	R402	▲ 1-215-895-11	METAL OXIDE	3.3K	5%	2W F		
R228	1-247-239-00	(AEP)...	CARBON	910	5%	1/2W	R403	1-247-721-11	CARBON	4.7K	5%	1/4W
R251	1-249-417-11	CARBON	1K	5%	1/4W	R404	1-247-721-11	CARBON	4.7K	5%	1/4W	
R252	1-247-700-11	CARBON	100	5%	1/4W	R405	1-247-706-11	(E,AEP,UK,Canadian)				
R253	1-247-717-11	CARBON	2.2K	5%	1/4W	...CARBON	330	5%	1/4W			
R254	1-247-722-11	CARBON	5.6K	5%	1/4W	R406	1-249-469-11	CARBON	100K	5%	1/4W	
R255	1-249-753-15	CARBON	4.7M	5%	1/4W	R407	1-247-700-11	CARBON	100	5%	1/4W	
R256	1-249-753-15	CARBON	4.7M	5%	1/4W	R408	1-249-469-11	CARBON	100K	5%	1/4W	
R258	1-247-170-00	CARBON	43K	5%	1/4W	R409	1-247-713-11	CARBON	1K	5%	1/4W	
R259	1-247-152-00	CARBON	7.5K	5%	1/4W	R410	1-247-713-11	CARBON	1K	5%	1/4W	
R260	1-249-464-11	CARBON	39K	5%	1/4W	R411	1-247-725-11	CARBON	10K	5%	1/4W	
R261	1-249-465-11	CARBON	47K	5%	1/4W	R412	1-249-484-11	CARBON	6.8	5%	1/2W	
R262	1-249-465-11	CARBON	47K	5%	1/4W	R413	1-247-739-11	CARBON	100	5%	1/2W	
R263	1-247-722-11	CARBON	5.6K	5%	1/4W	R414	1-247-138-00	CARBON	2K	5%	1/4W	
R301	1-247-713-11	CARBON	1K	5%	1/4W	R415	1-247-700-11	CARBON	100	5%	1/4W	
R302	1-249-599-11	CARBON	91K	5%	1/4W	R416	1-214-937-00	CARBON	1M	5%	1/2W	
R303	1-249-668-11	CARBON	620	5%	1/2W	R417	1-249-844-11	CARBON	56K	5%	1/2W	
R304	1-247-713-11	CARBON	1K	5%	1/4W	R418	1-249-818-11	CARBON	4.7K	1%	1/2W	
R305	1-247-707-11	CARBON	390	5%	1/4W	R419	1-247-713-11	CARBON	1K	5%	1/4W	
R306	▲ 1-212-990-00	FUSIBLE	220	5%	1/2W F	R431	1-247-713-11	(WG)...	CARBON	1K	5%	1/4W
R307	▲ 1-212-950-00	FUSIBLE	4.7	5%	1/2W F	R432	1-247-713-11	(WG)...	CARBON	1K	5%	1/4W
R308	▲ 1-212-950-00	FUSIBLE	4.7	5%	1/2W F	R455	1-247-706-11	(E,AEP,UK,Canadian)				
R309	1-217-611-00	METAL PLATE	0.1	10%	2W	...CARBON	330	5%	1/4W			
R310	1-217-611-00	METAL PLATE	0.1	10%	2W	R456	1-249-469-11	CARBON	100K	5%	1/4W	
R311	▲ 1-247-717-11	CARBON	2.2K	5%	1/4W F	R457	1-247-700-11	CARBON	100	5%	1/4W	
R312	1-249-460-11	CARBON	15K	5%	1/4W	R458	1-249-469-11	CARBON	100K	5%	1/4W	
R313	▲ 1-212-962-00	FUSIBLE	15	5%	1/2W F	R459	1-247-713-11	CARBON	1K	5%	1/4W	
R314	▲ 1-212-962-00	FUSIBLE	15	5%	1/2W F	R460	1-247-713-11	CARBON	1K	5%	1/4W	
R315	1-247-891-00	CARBON	330K	5%	1/4W	R461	1-247-725-11	CARBON	10K	5%	1/4W	
R316	1-247-725-11	CARBON	10K	5%	1/4W	R462	1-249-484-11	CARBON	6.8	5%	1/2W	
R317	1-247-887-00	CARBON	220K	5%	1/4W	R463	1-247-739-11	CARBON	100	5%	1/2W	
R318	1-247-881-00	CARBON	120K	5%	1/4W	R465	1-247-700-11	CARBON	100	5%	1/4W	
R319	1-249-461-11	CARBON	18K	5%	1/4W							
R320	1-247-721-11	CARBON	4.7K	5%	1/4W							
R321	1-249-462-11	CARBON	22K	5%	1/4W							
R323	▲ 1-212-849-00	FUSIBLE	4.7	5%	1/4W F							
R324	1-247-727-11	CARBON	10	5%	1/2W							
R325	1-247-747-11	CARBON	470	5%	1/2W							

Note:
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Ref.No.	Part No.	Description
R466	1-214-937-00	CARBON 1M 5% 1/2W
R467	1-249-844-11	CARBON 56K 5% 1/2W
R468	1-249-818-11	CARBON 4.7K 1% 1/2W
R469	1-247-713-11	CARBON 1K 5% 1/4W
R481	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R482	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R902	1-247-727-11	(WG)...CARBON 10 5% 1/2W
R903	1-247-727-11	(WG)...CARBON 10 5% 1/2W
RT301	1-237-455-11	RES, ADJ, CARBON 500
RT351	1-237-455-11	RES, ADJ, CARBON 500
RV101	1-238-448-11	RES, VAR, CARBON 150K/150K (BALANCE)
RV102	1-238-446-11	RES, VAR, CARBON 250K/250K (TREBLE)
RV103	1-238-447-11	RES, VAR, CARBON 25K/500K (BASS)
RV104	1-237-472-11	RES, VAR, CARBON 120K/120K (ATTENUATOR)
RY301	1-515-501-00	RELAY
S201	1-571-824-11	SWITCH, ROTARY (INPUT SELECTOR)
S202	1-571-826-11	SWITCH, ROTARY (INPUT SELECTOR)
S203	1-571-823-11	SWITCH, ROTARY SLIDE (REC OUT SELECTOR)
S204	1-571-828-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)
S205	1-571-827-11	SWITCH, PUSH (1 KEY) (MUTING)
S206	1-571-822-11	SWITCH, ROTARY SLIDE (SPEAKER)
S207	1-571-825-11	SWITCH, ROTARY (MODE)
S401	1-571-111-11	SWITCH, PUSH (1 KEY) (CARTRIDGE)
S501	▲1-554-920-31	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
S502	▲1-570-307-11	(E)...SWITCH, VOLTAGE CHANGE (VOLTAGE SELECTOR)
T1	▲1-449-685-11	(Canadian)...TRANSFORMER, POWER
T1	▲1-449-687-11	(WG).....TRANSFORMER, POWER
T1	▲1-449-688-11	(AEP).....TRANSFORMER, POWER
T1	▲1-449-689-11	(UK).....TRANSFORMER, POWER
T1	▲1-449-690-11	(E).....TRANSFORMER, POWER
TM501	1-537-235-11	TERMINAL BOARD (SP)
TP301	1-535-135-00	BASE POST 14MM (10MM PITCH) 2P
TP351	1-535-135-00	BASE POST 14MM (10MM PITCH) 2P
VH2	*1-564-321-00	PIN, CONNECTOR 2P
VH3	1-564-320-00	PIN, CONNECTOR 2P
VH4	*1-564-321-00	(AEP, UK, WG)....PIN, CONNECTOR 2P
VH5	*1-565-792-11	PIN, CONNECTOR 2P
VH6	*1-564-321-00	(AEP, UK, WG)....PIN, CONNECTOR 2P
VH8	*1-564-241-00	PIN, CONNECTOR 4P
VH9	*1-560-595-21	TERMINAL (WITH BASE)
VH11	1-564-321-00	(Canadian, E)...PIN, CONNECTOR 2P
VH12	1-564-320-00	PIN, CONNECTOR 2P
VH20	*1-535-141-00	(E)...BASE POST 22MM (10MM PITCH) 4P
ACCESSORY & PACKING MATERIAL		
3-786-976-11 (Canadian, UK, E)...MANUAL, INSTRUCTION		
3-786-976-41 (AEP, WG).....MANUAL, INSTRUCTION		
*4-929-219-01 CUSHION		
*4-929-263-11 INDIVIDUAL CARTON		

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